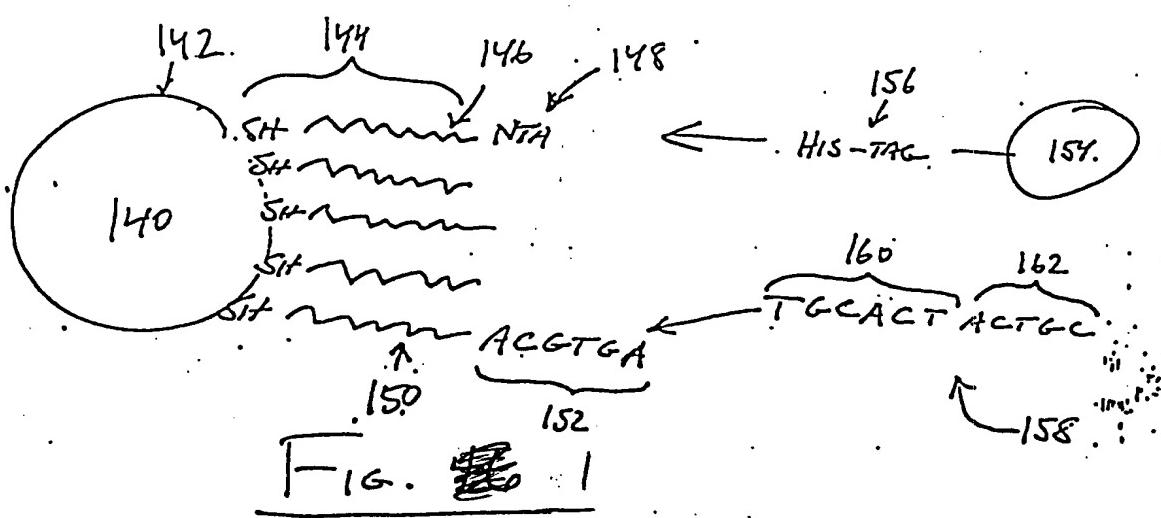


1920-1975 A.D. 1950-1975



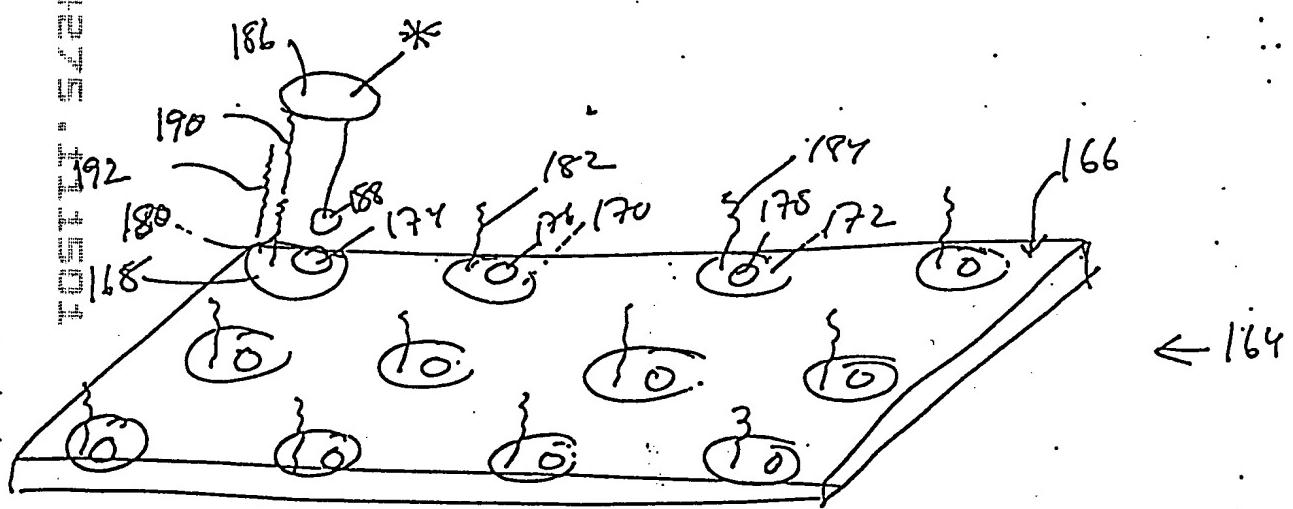


FIG. 47

FIG. 2

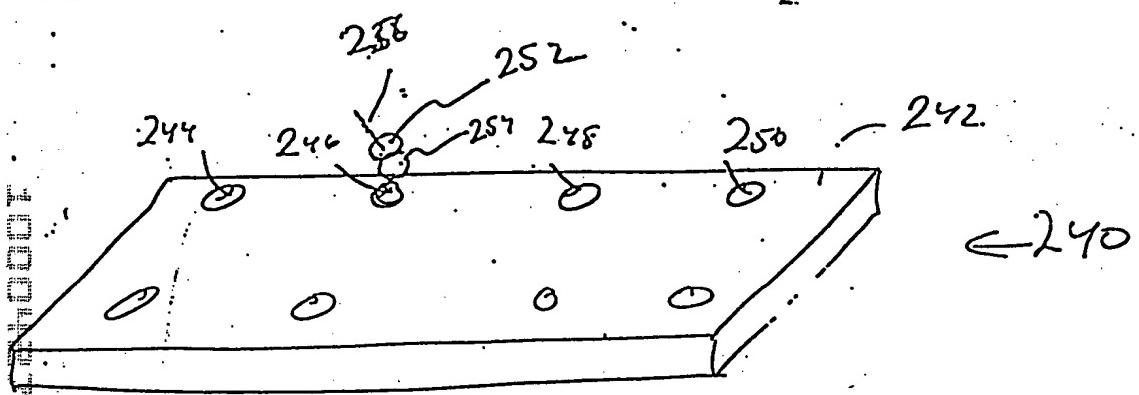


Fig 33

Fig. 3

Add complementary DNA to "DNA priming region" sequence using standard PCR methods:

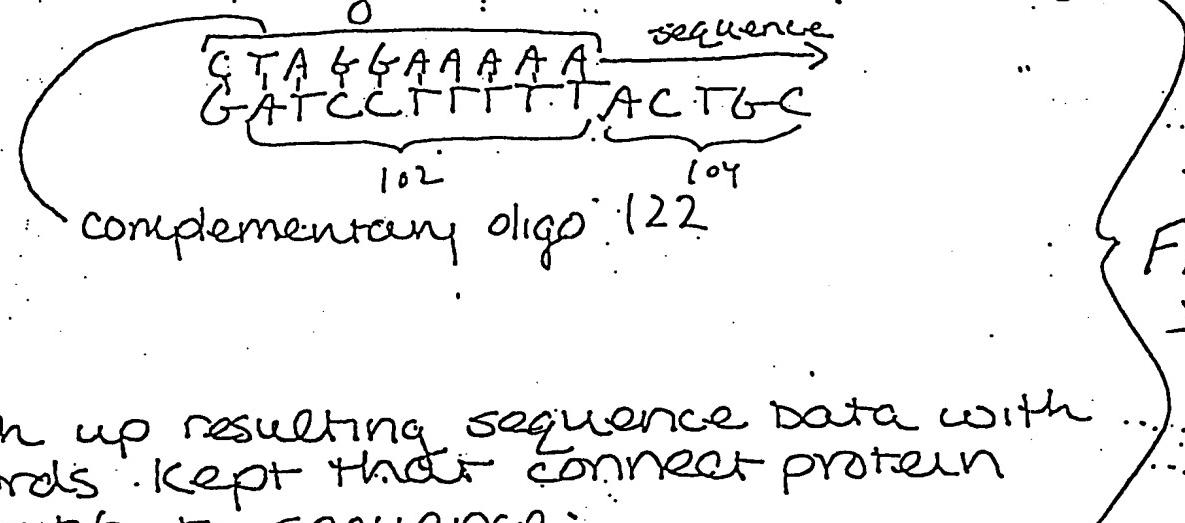
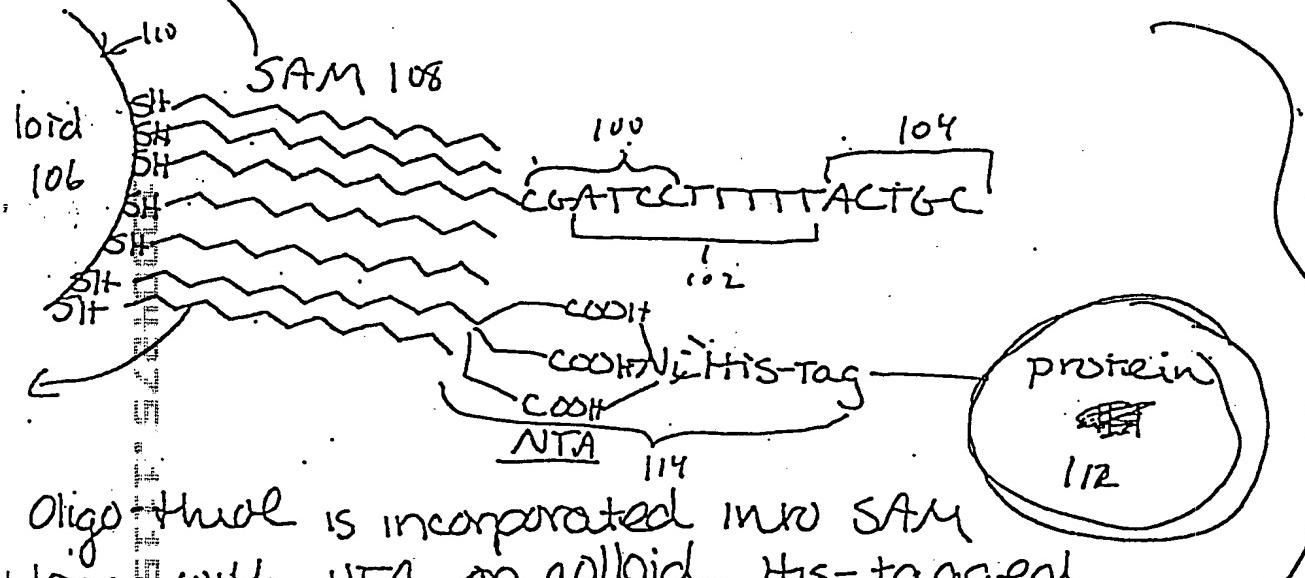
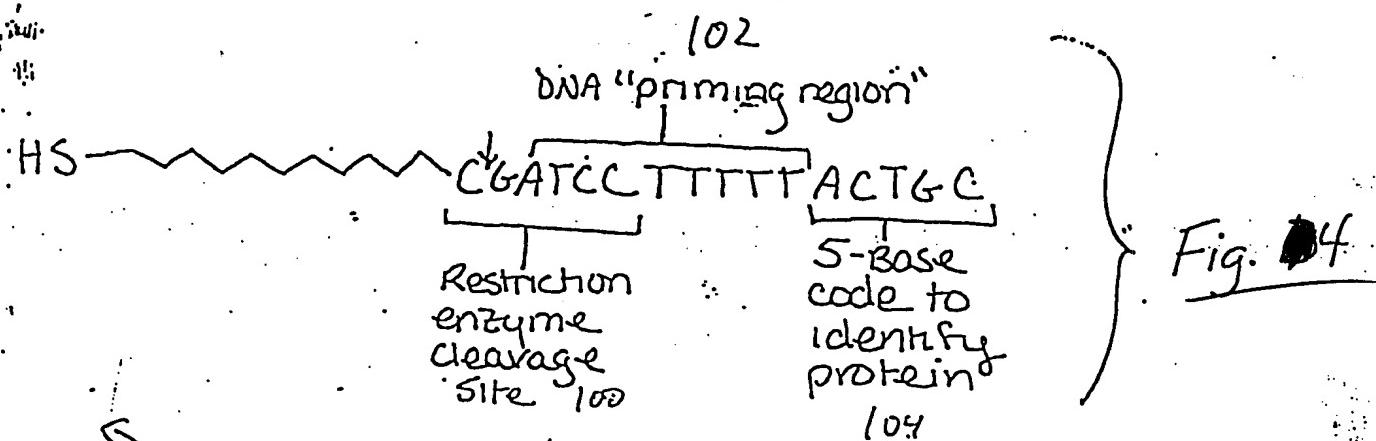


Fig. 38  
5

Match up resulting sequence data with records kept that connect protein identity to sequence:

$\underbrace{\text{A} \text{C} \text{T} \text{G} \text{C}}_{104} = \text{protein } \# 120$   
(species)

CODE 75 44500



Oligothiol is incorporated into SAM along with NTA on colloid. His-tagged strep is attached to colloid via NTA-Ni.

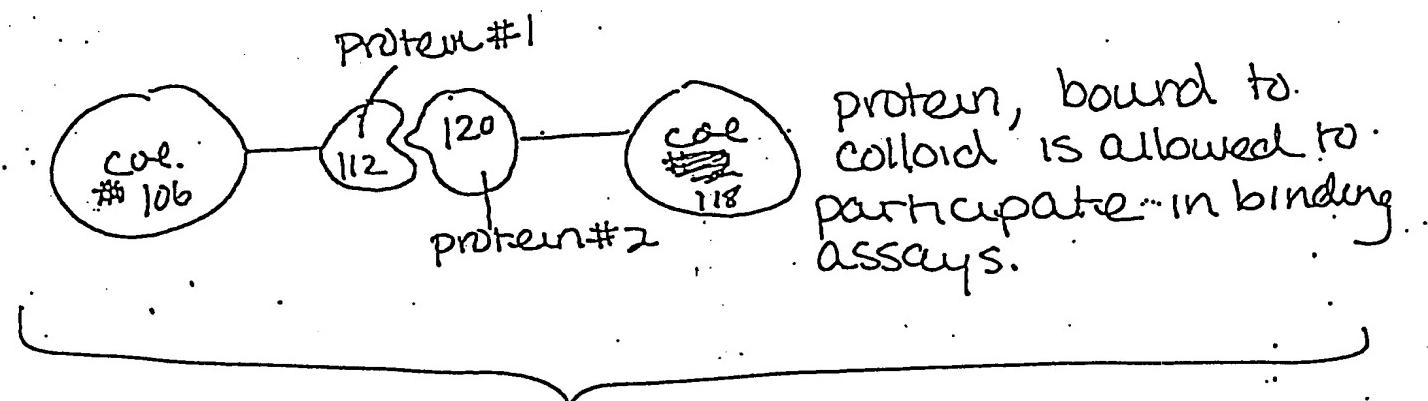
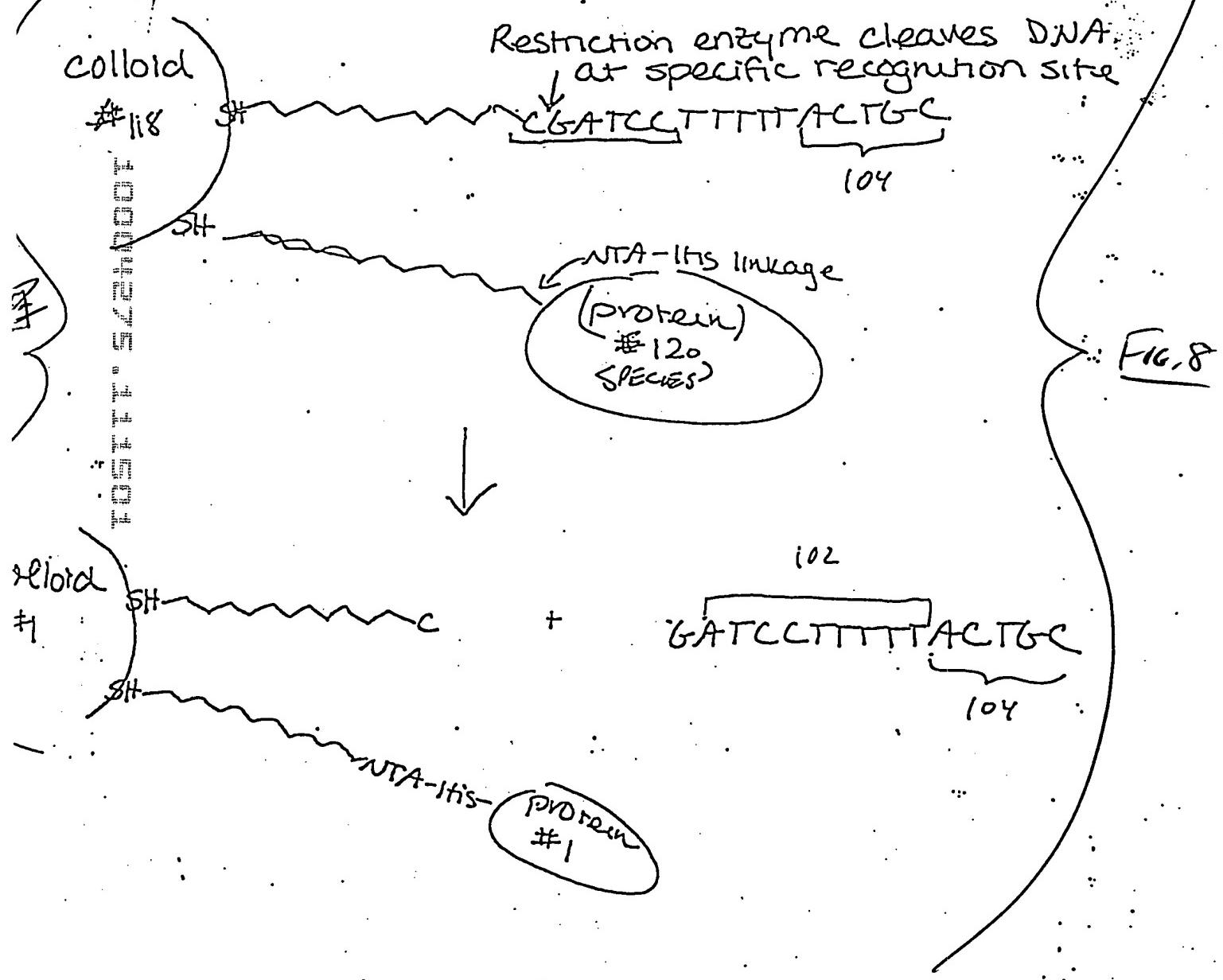


Fig. 36 7.

To uncover the identity of protein after the assays are completed, cleave the DNA portion of the DNA-thiol by addition of a restriction enzyme:



schematic #2:

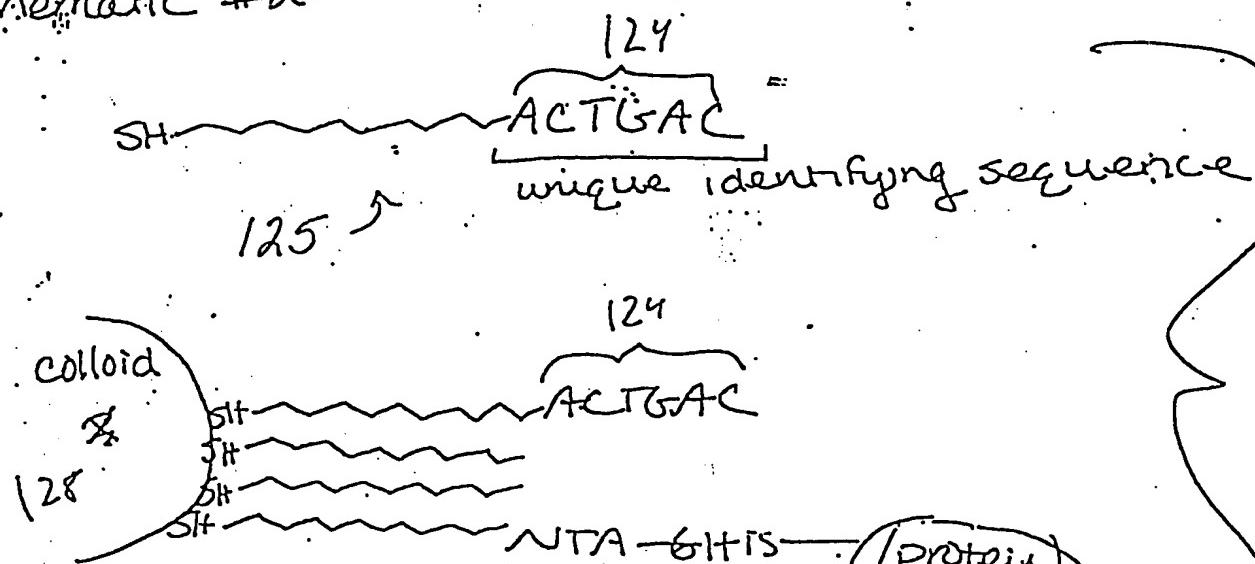


Fig. 3F  
9

DNA thiol is incorporated into SAM on colloid along with NTA + protein is attached via His-tag.

colloids bearing proteins or small molecules are allowed to interact. Binding of protein X to small molecule Y ~~allows~~ brings their DNA tags into close proximity

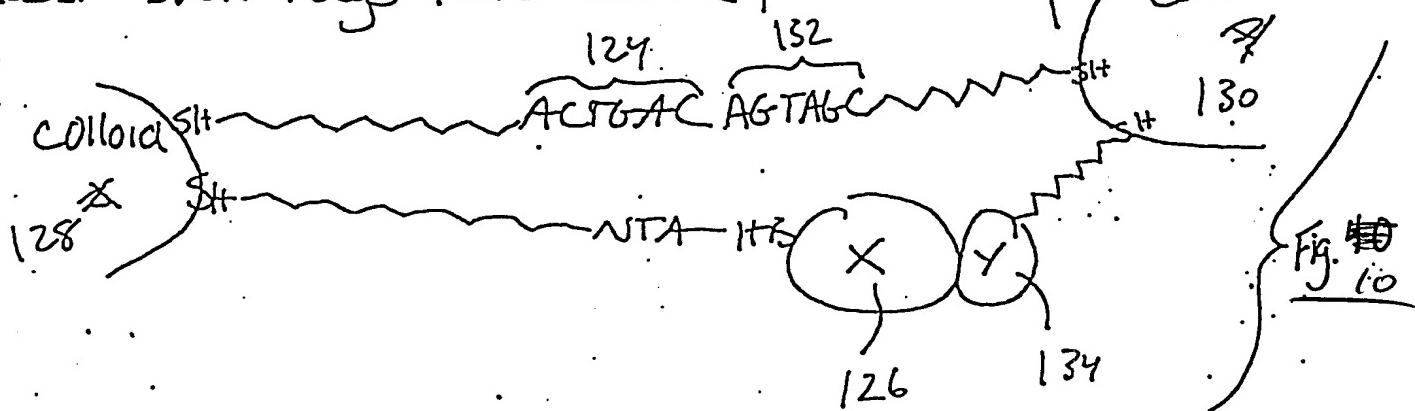
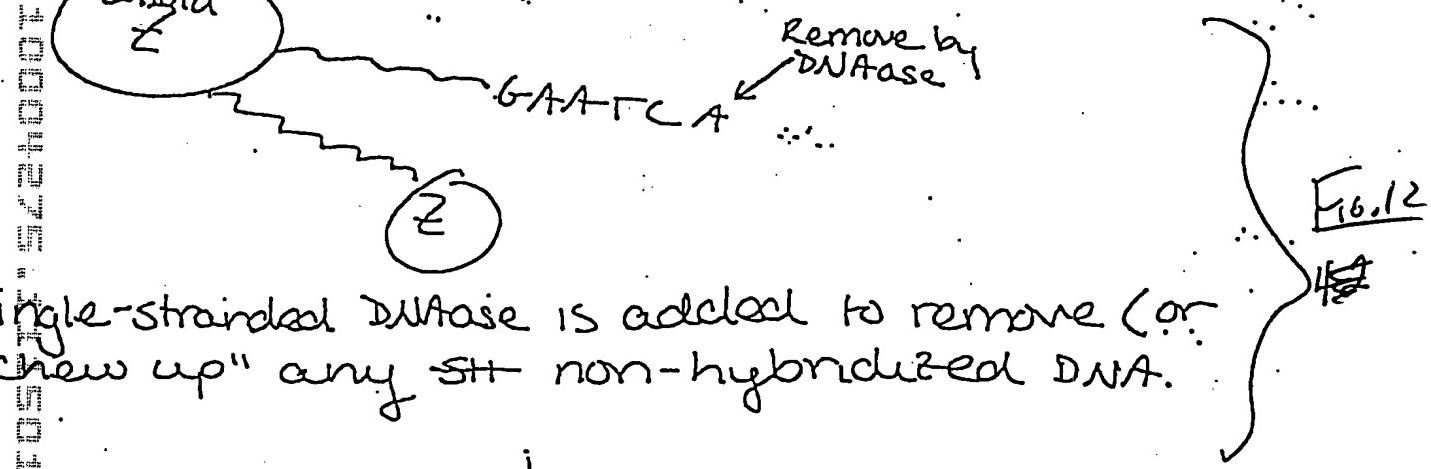
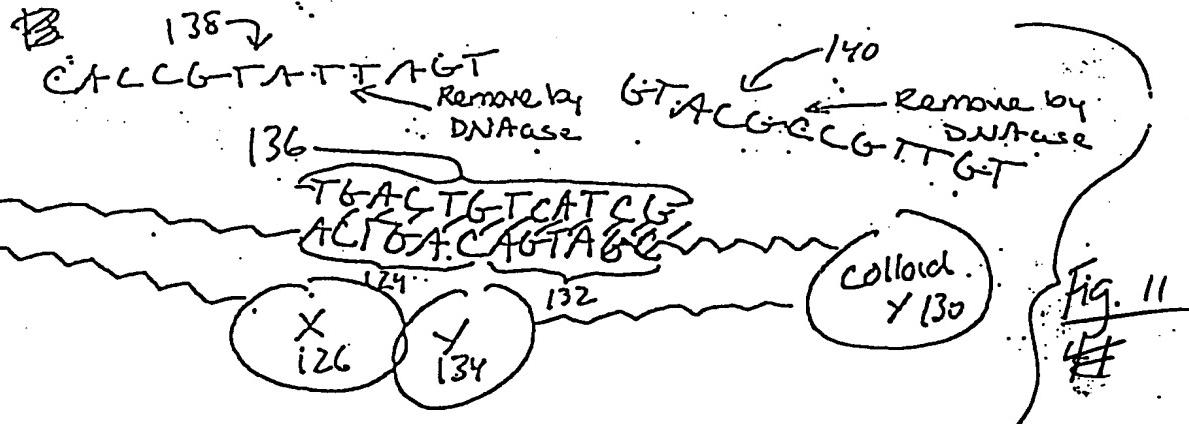


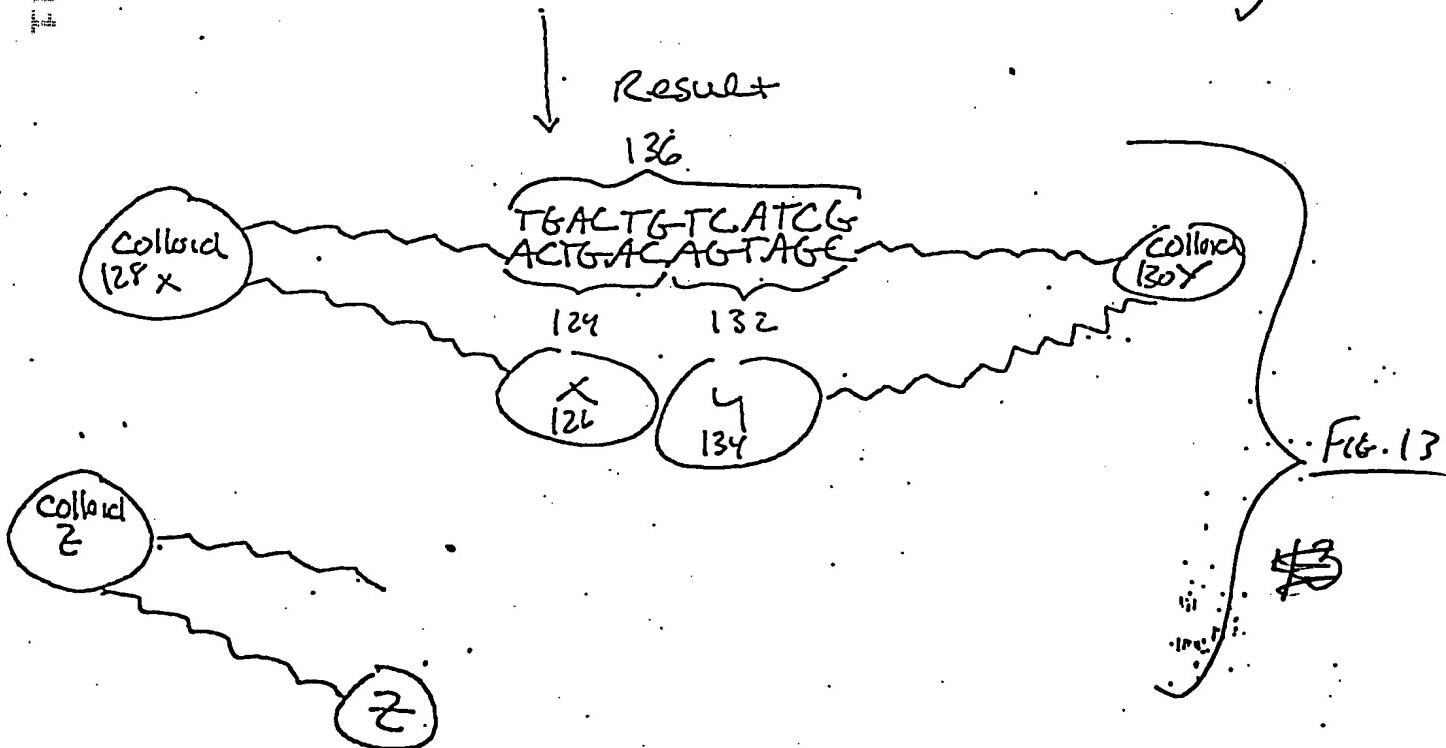
Fig. 3F  
10

olig probes

Complementary sequences to ~~random~~ DNA tags are added + allowed to bind.

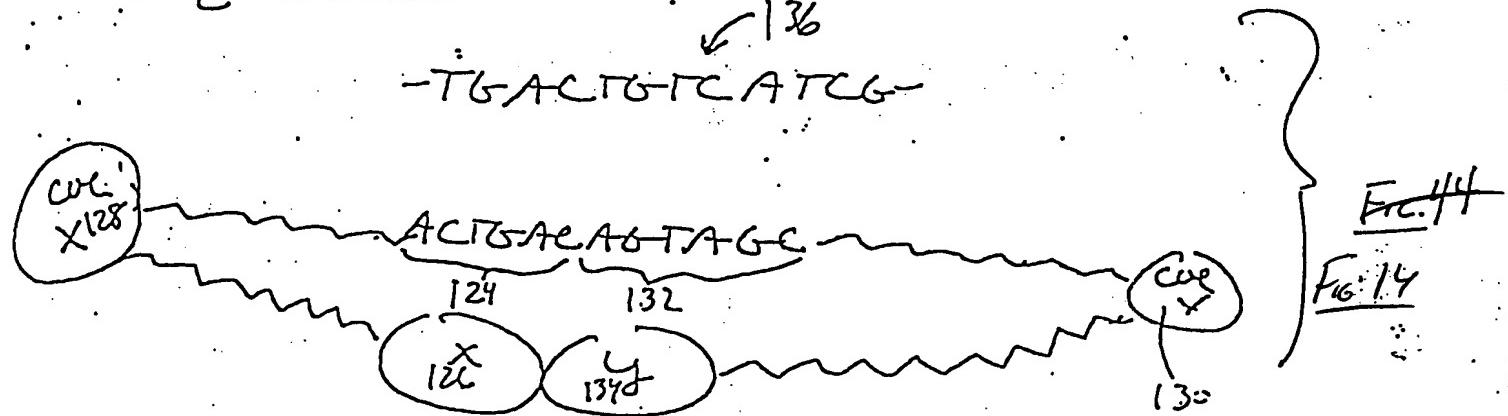


Single-stranded DNase is added to remove (or "chew up" any still non-hybridized DNA.



2. Complementary DNA is denatured and sequenced.

136  
-TGACTGATGATCG-



3. Resulting sequence contains the unique DNA codes of the two binding partners,  $X + Y$ :

136  
ACTGACAGTAGC

=  $\overset{124}{\text{ACTGAC}} + \overset{132}{\text{AGTAGC}}$

↓  
unique  
sequence  
for  
protein X  
(species 12x)

↓  
unique sequence  
for  
protein Y  
(species 13y)

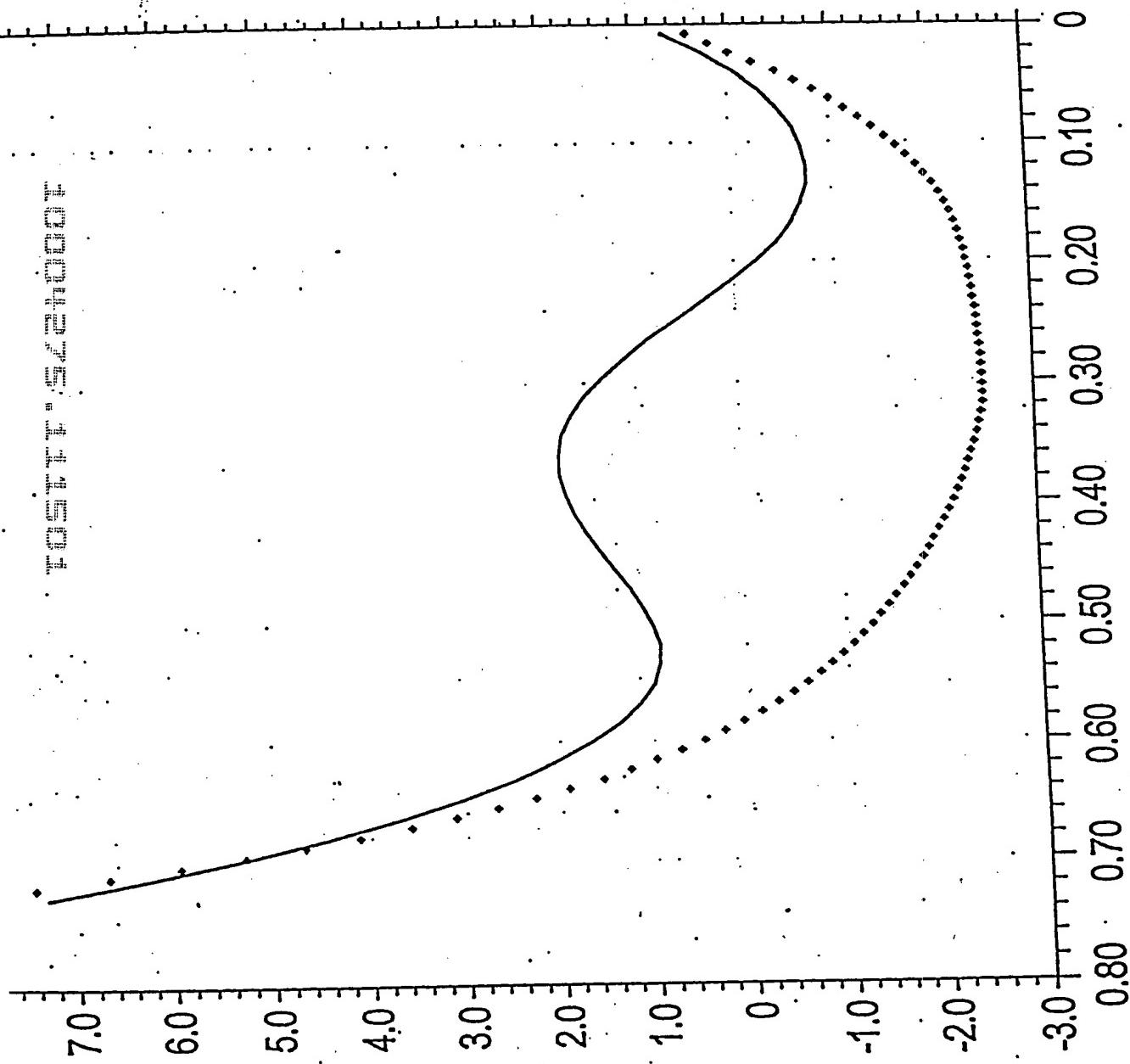
Protein X + Protein Y must be binding partners.

Tech: ACV

File: negconbb.bin

Init E (V) = 0  
Final E (V) = 0.8  
Incr E (V) = 0.008  
Amplitude (V) = 0.025  
Frequency (Hz) = 10  
Sample Period (s) = 1  
Quiet Time (s) = 2  
Sensitivity (A/V) = 1e-5

◆ negconbb.bin  
— posconbb.bin



AC Current /  $10^{-7} A$

~~Fig. 16~~ ~~Fig. 16~~ ~~Fig. 16~~  
Potential / V

Fig. 16

Iecn: ACV  
File: sb062\_007bb

Init E (V) = 0.1  
Final E (V) = 0.7  
Incr E (V) = 0.008  
Amplitude (V) = 0.025  
Frequency (Hz) = 10  
Sample Period (s) = 1  
Quiet Time (s) = 2  
Sensitivity (AV) = 5e-4

— sb062\_007bb  
○ sb062\_012bb.bin

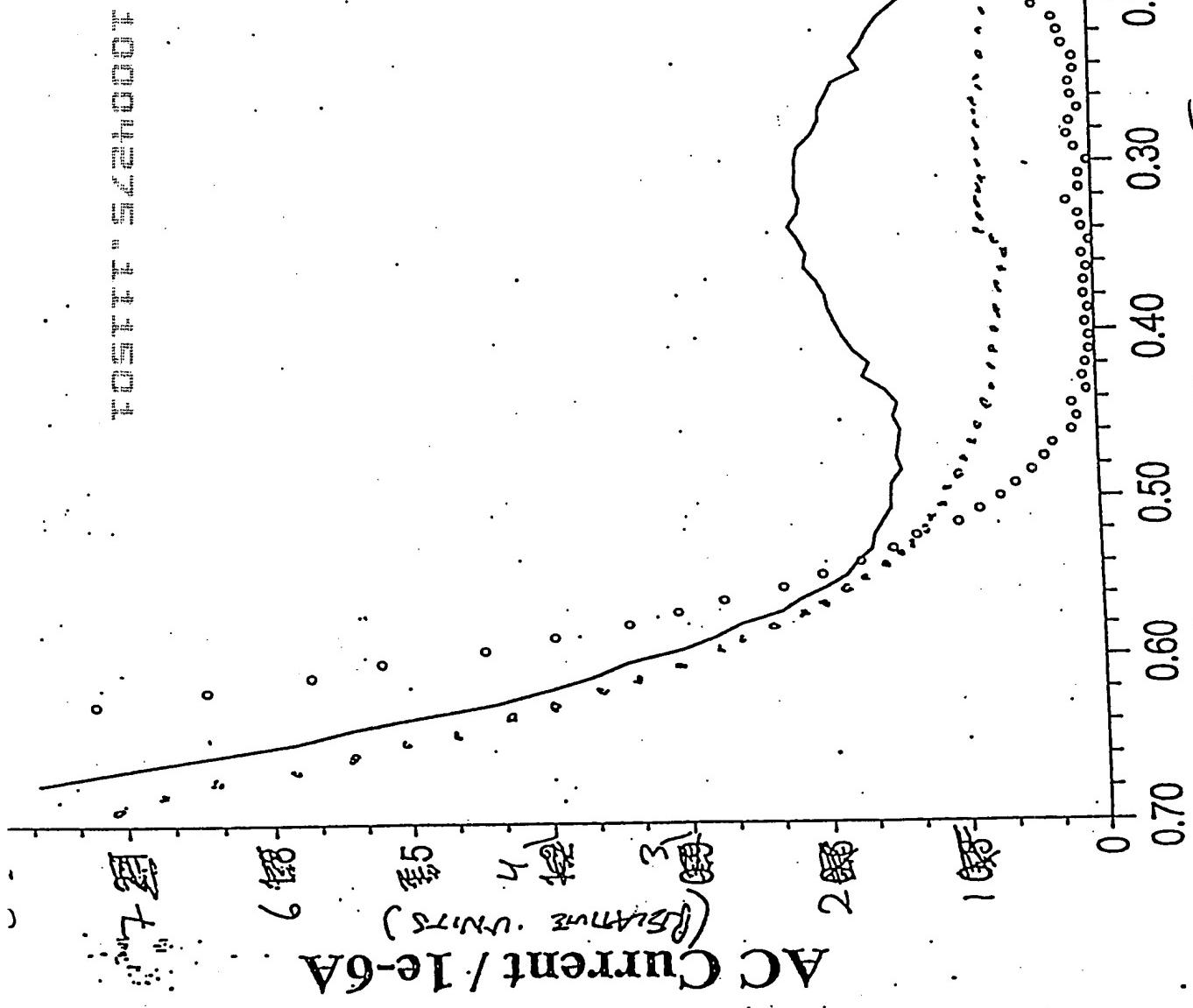


Fig. 12  
~~Fig. 12~~ Fig.  
~~Fig. 12~~ Fig.  
~~Fig. 12~~ Fig.

Fig. 17  
Diagram illustrating a system with two masses connected by a spring.

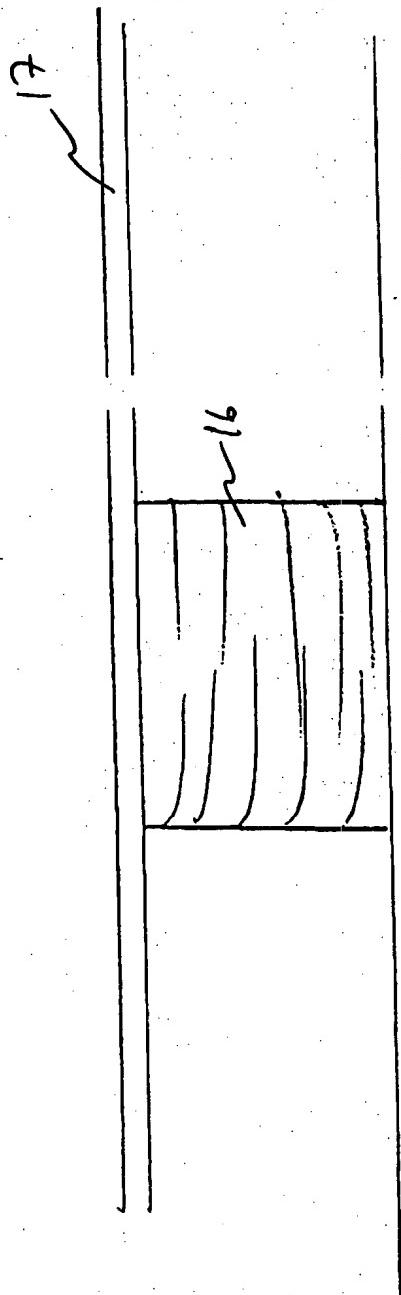
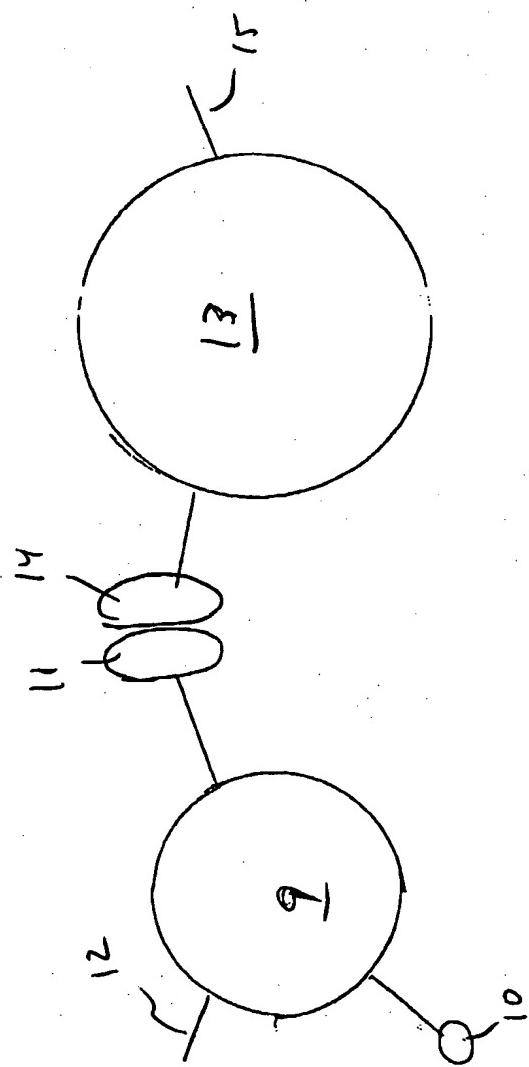
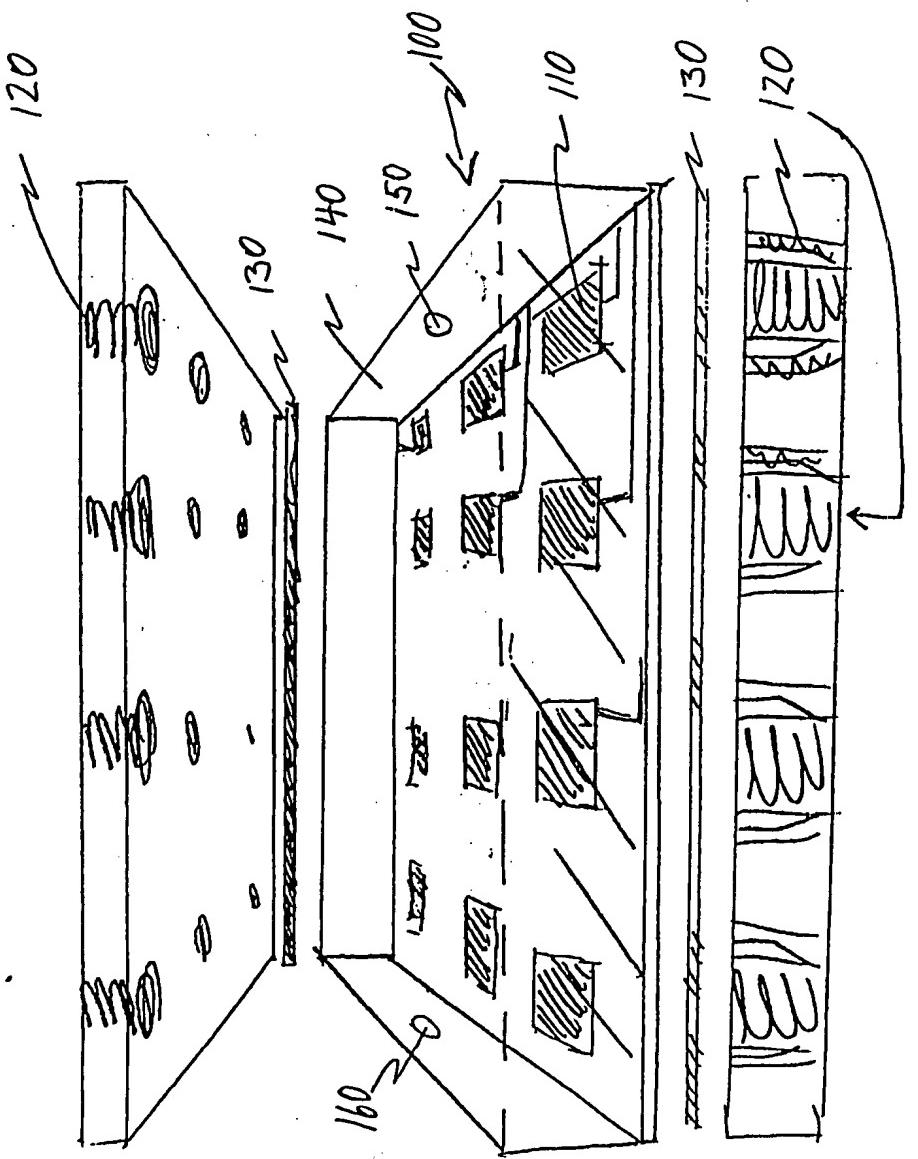


Fig. 18



Fri 6-20